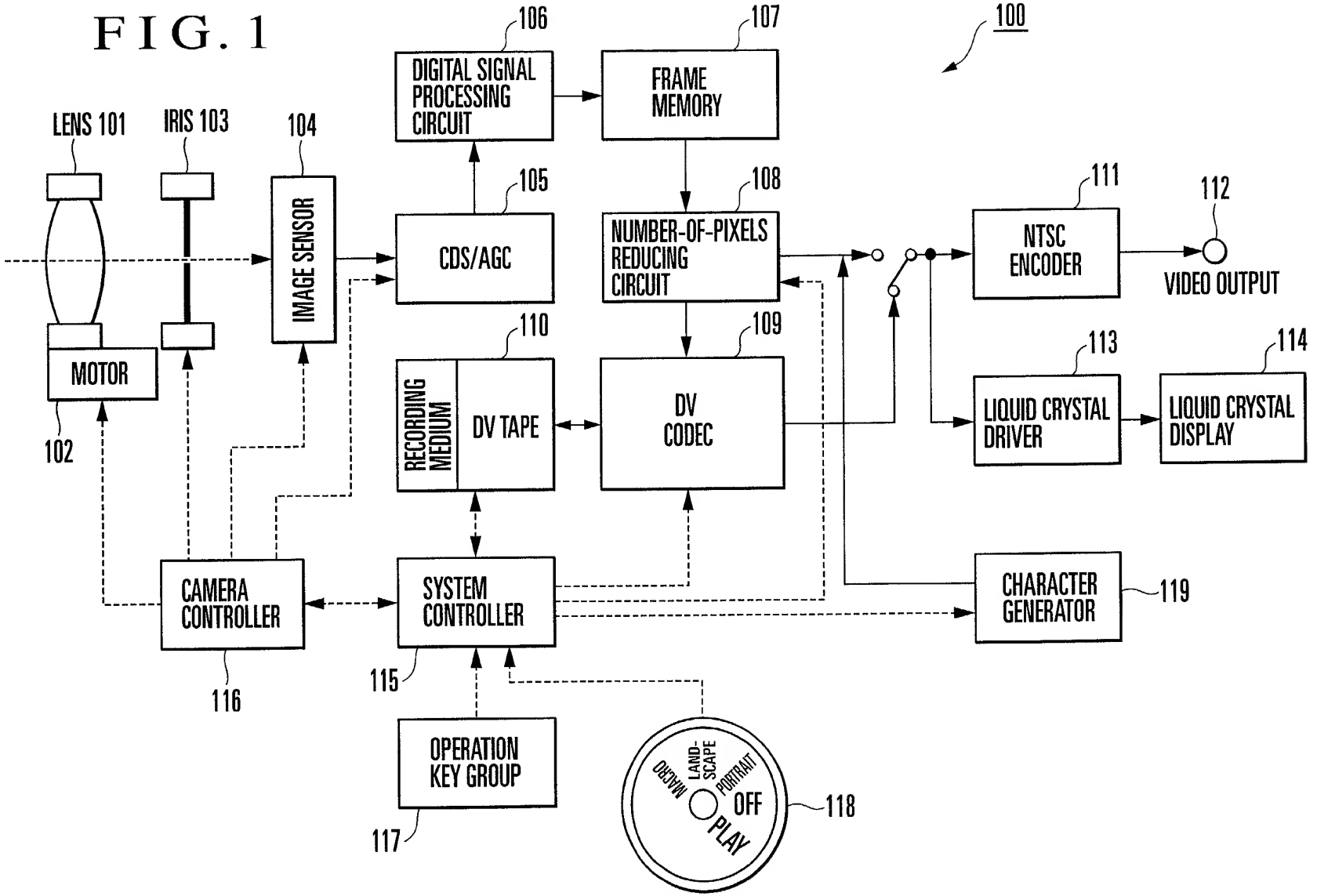
US 2002/0122260 A1

FIG. 1



JP2002-354260 A

FIG. 2A

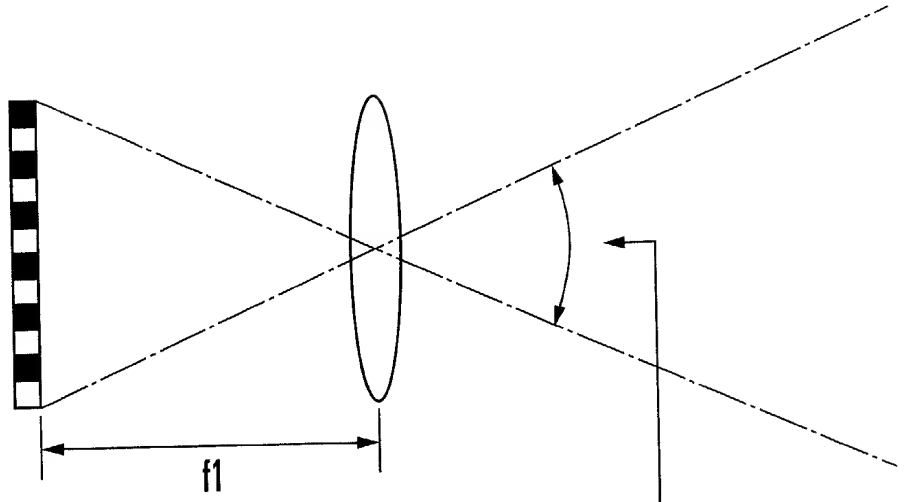


FIG. 2B

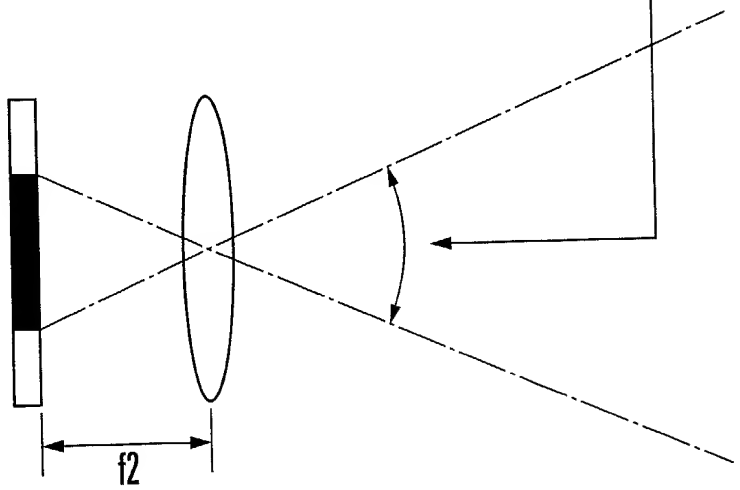


FIG. 3A

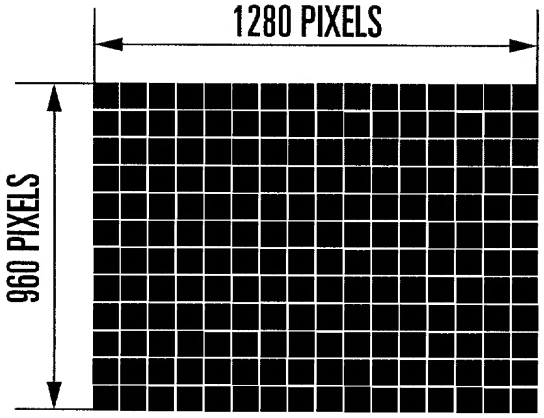


FIG. 3B

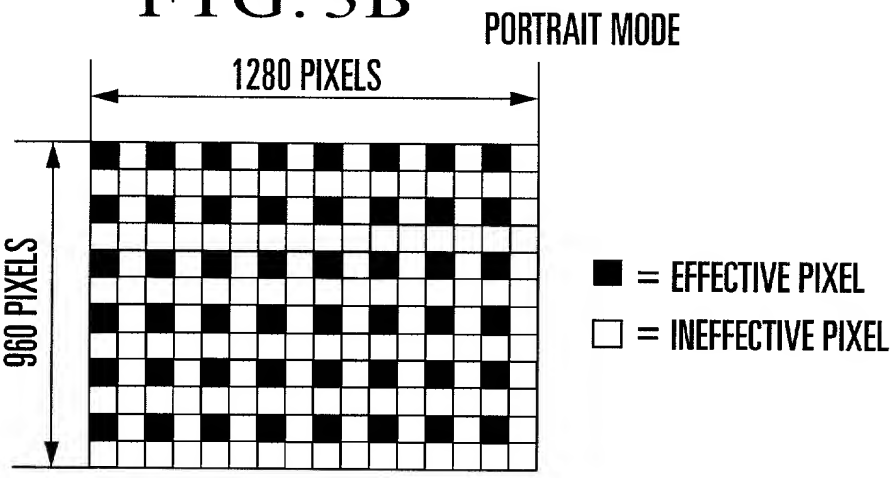


FIG. 3C

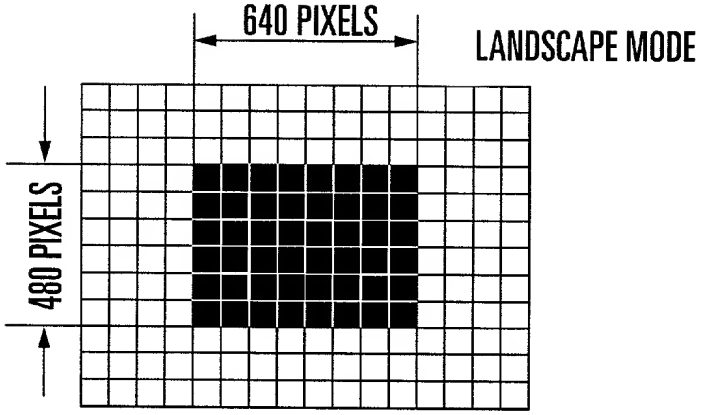


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FIG. 4

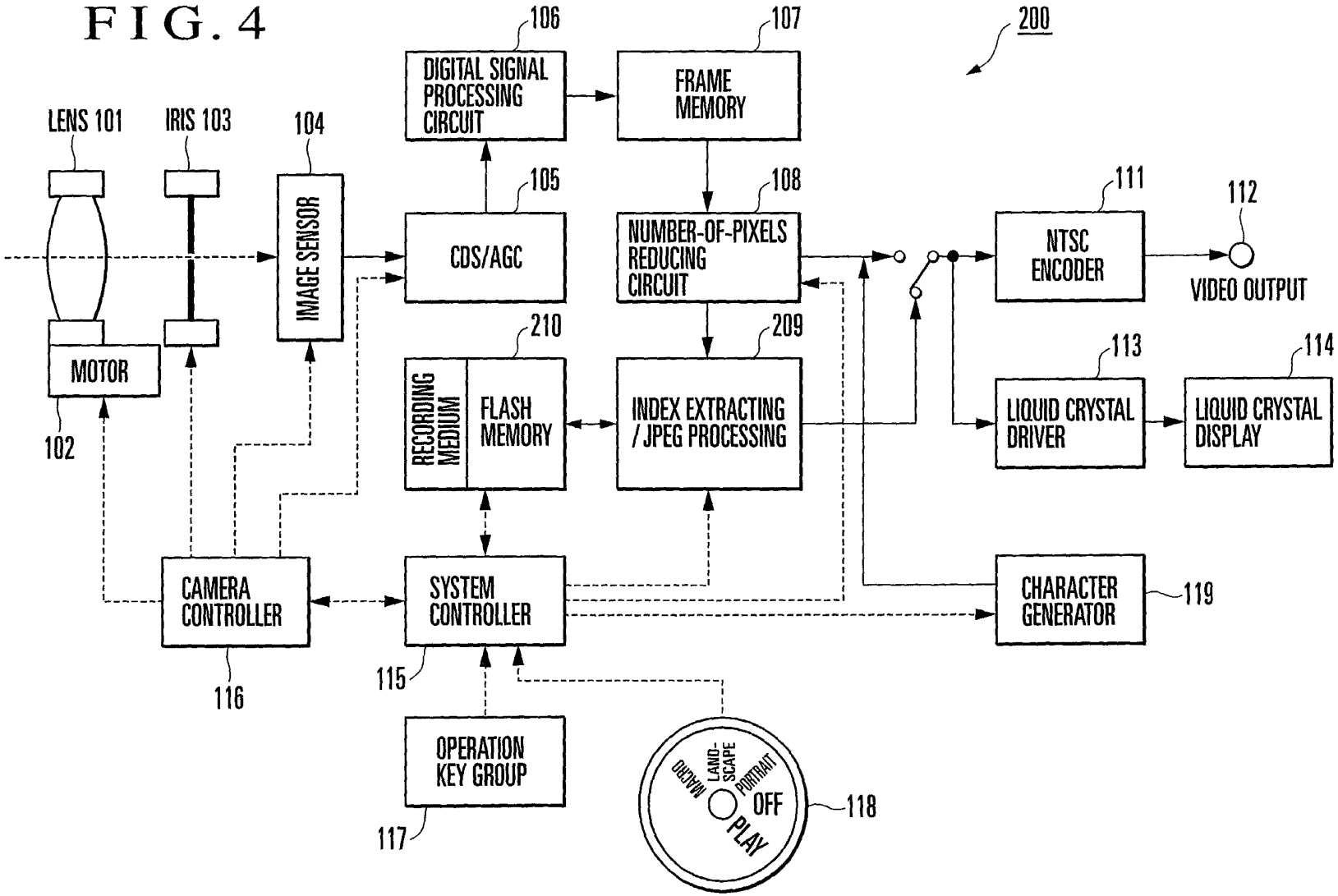


FIG. 5

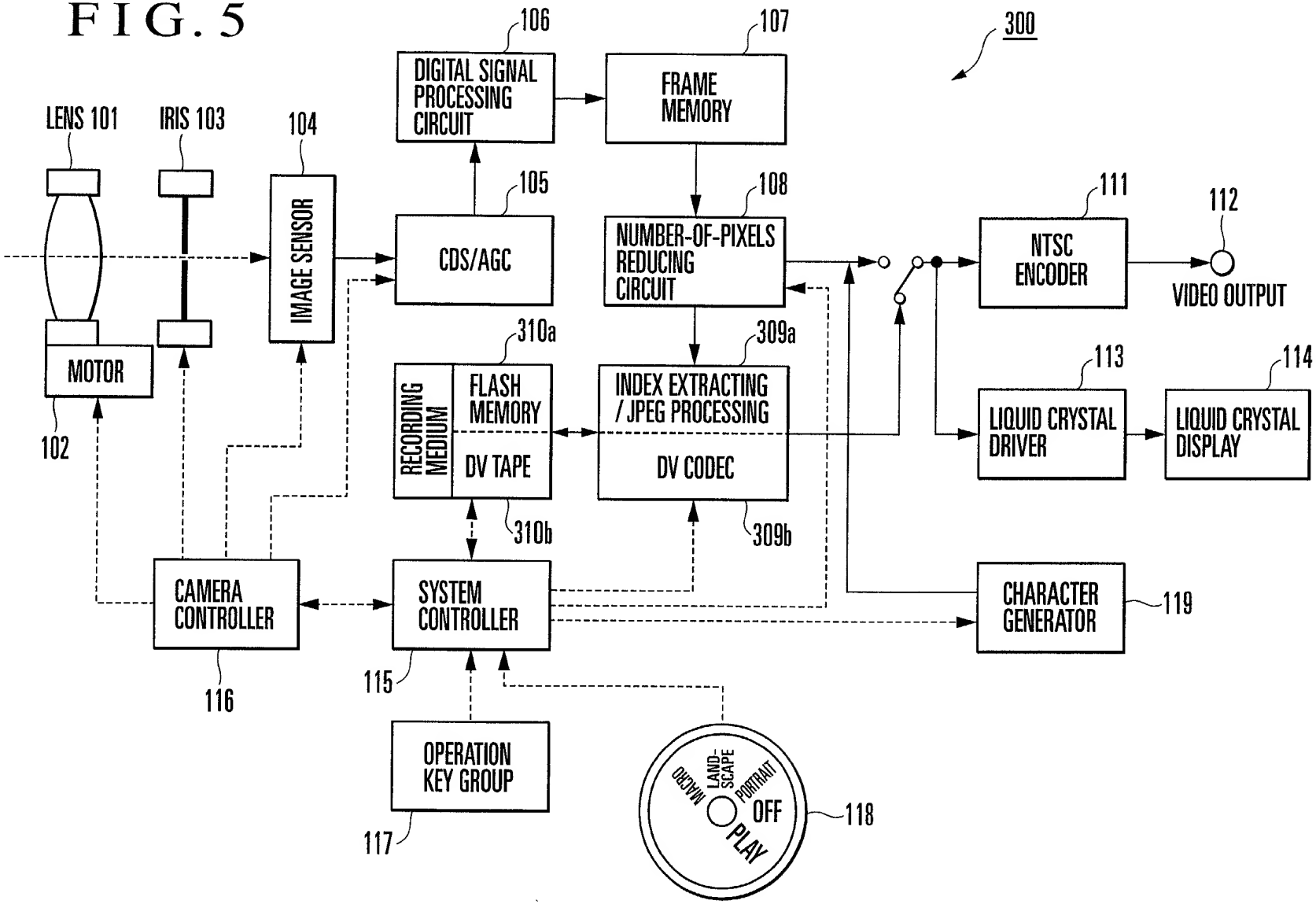

300
106
DIGITAL SIGNAL PROCESSING CIRCUIT
107
FRAME MEMORY
LENS 101
IRIS 103
104
IMAGE SENSOR
105
CDS/AGC
108
NUMBER-OF-PIXELS REDUCING CIRCUIT
111
NTSC ENCODER
112
VIDEO OUTPUT
MOTOR
102
310a
RECORDING MEDIUM
FLASH MEMORY
DV TAPE
310b
309a
INDEX EXTRACTING / JPEG PROCESSING
DV CODEC
309b
113
LIQUID CRYSTAL DRIVER
114
LIQUID CRYSTAL DISPLAY
CAMERA CONTROLLER
116
SYSTEM CONTROLLER
115
CHARACTER GENERATOR
119
OPERATION KEY GROUP
117
MACRO
LAND-SCAPE
PORTRAIT
OFF
PLAY
118

FIG. 6

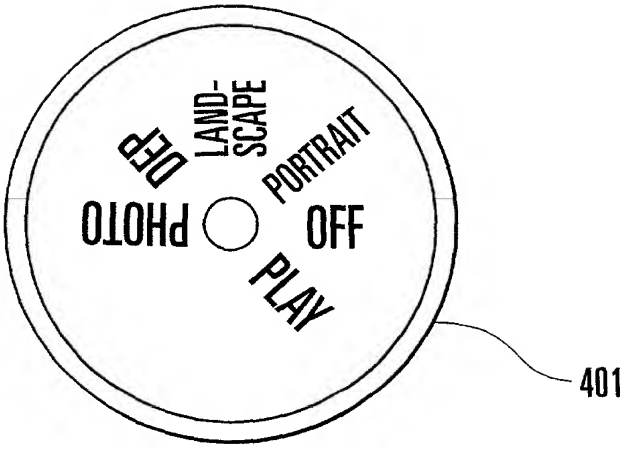

OFF
LAND-SCAPE
PORTRAIT
PHOTO
PLAY
401

FIG. 7

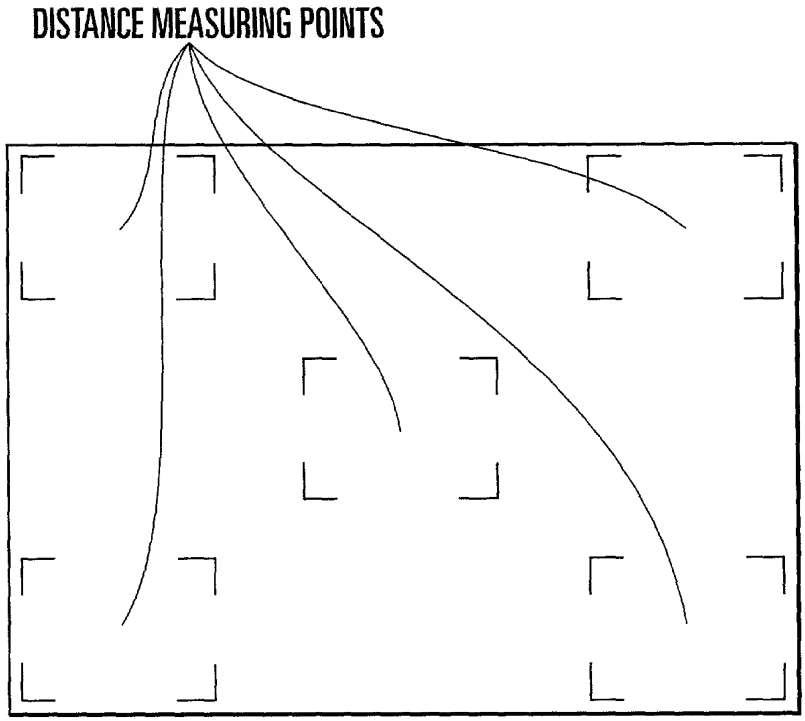

DISTANCE MEASURING POINTS

FIG. 8

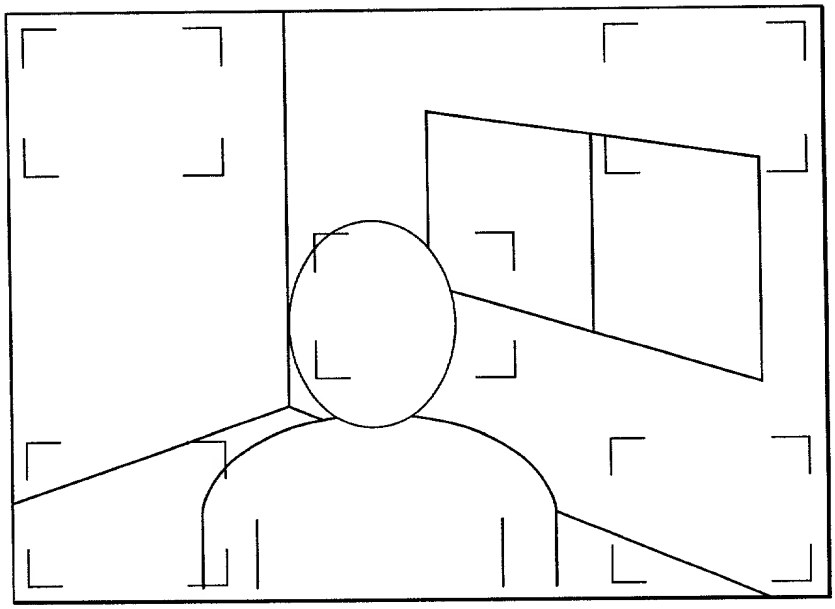


FIG. 9

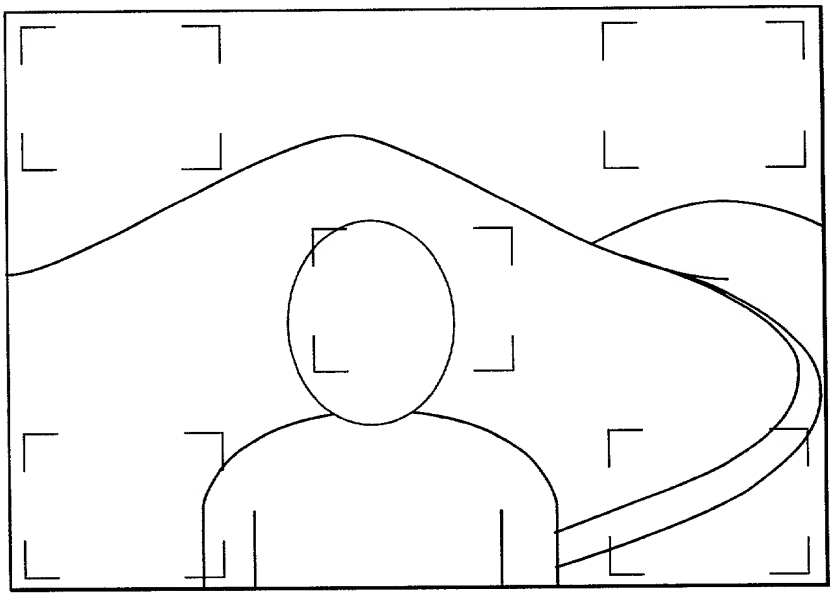


FIG. 10A

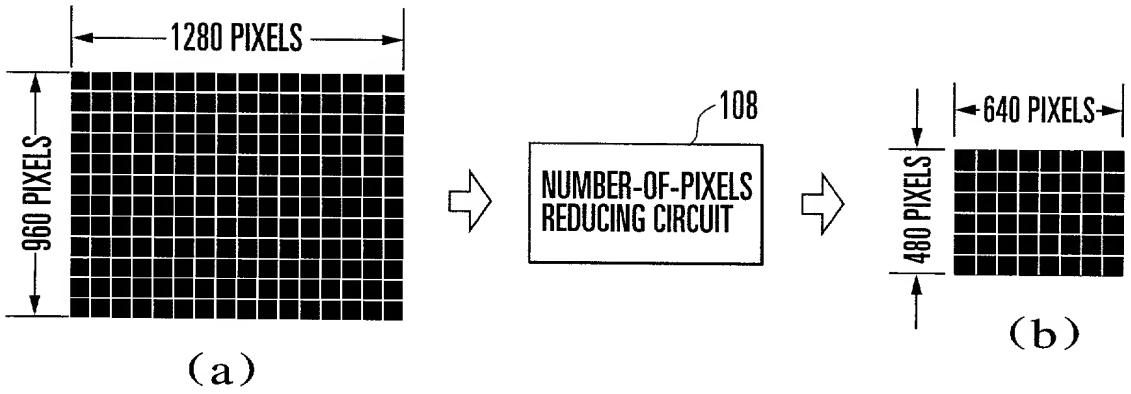


FIG. 10B

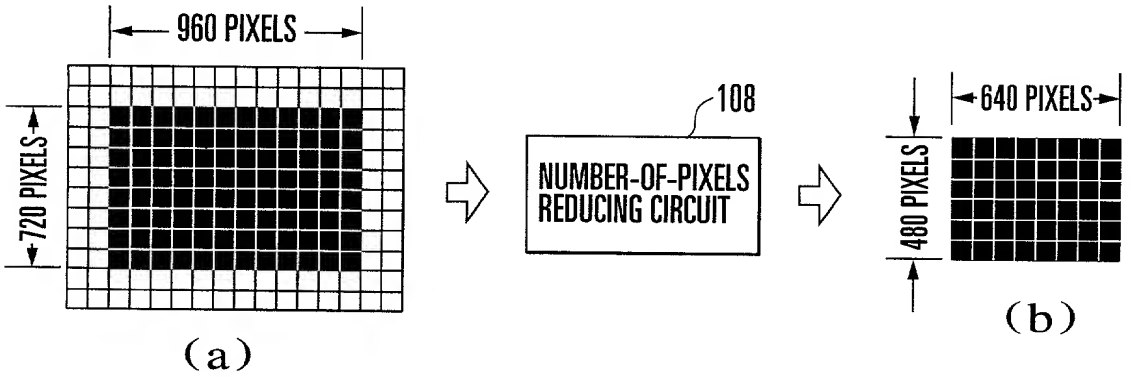
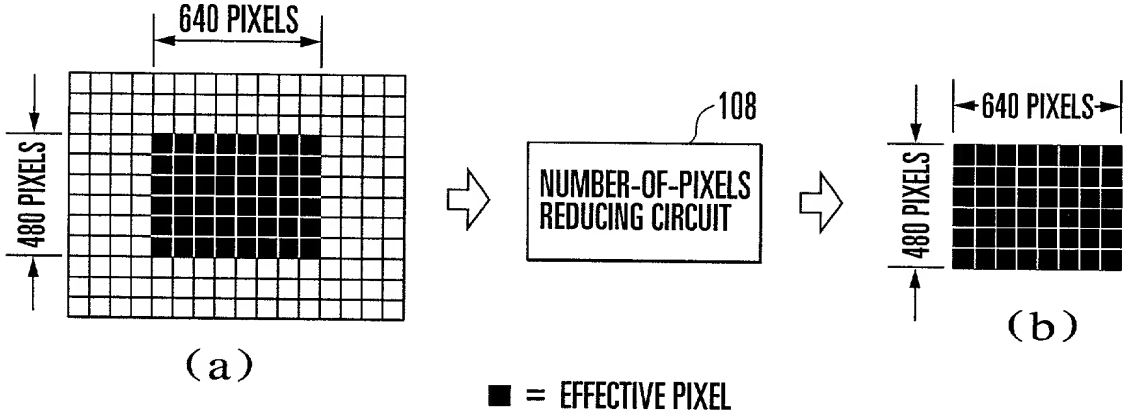
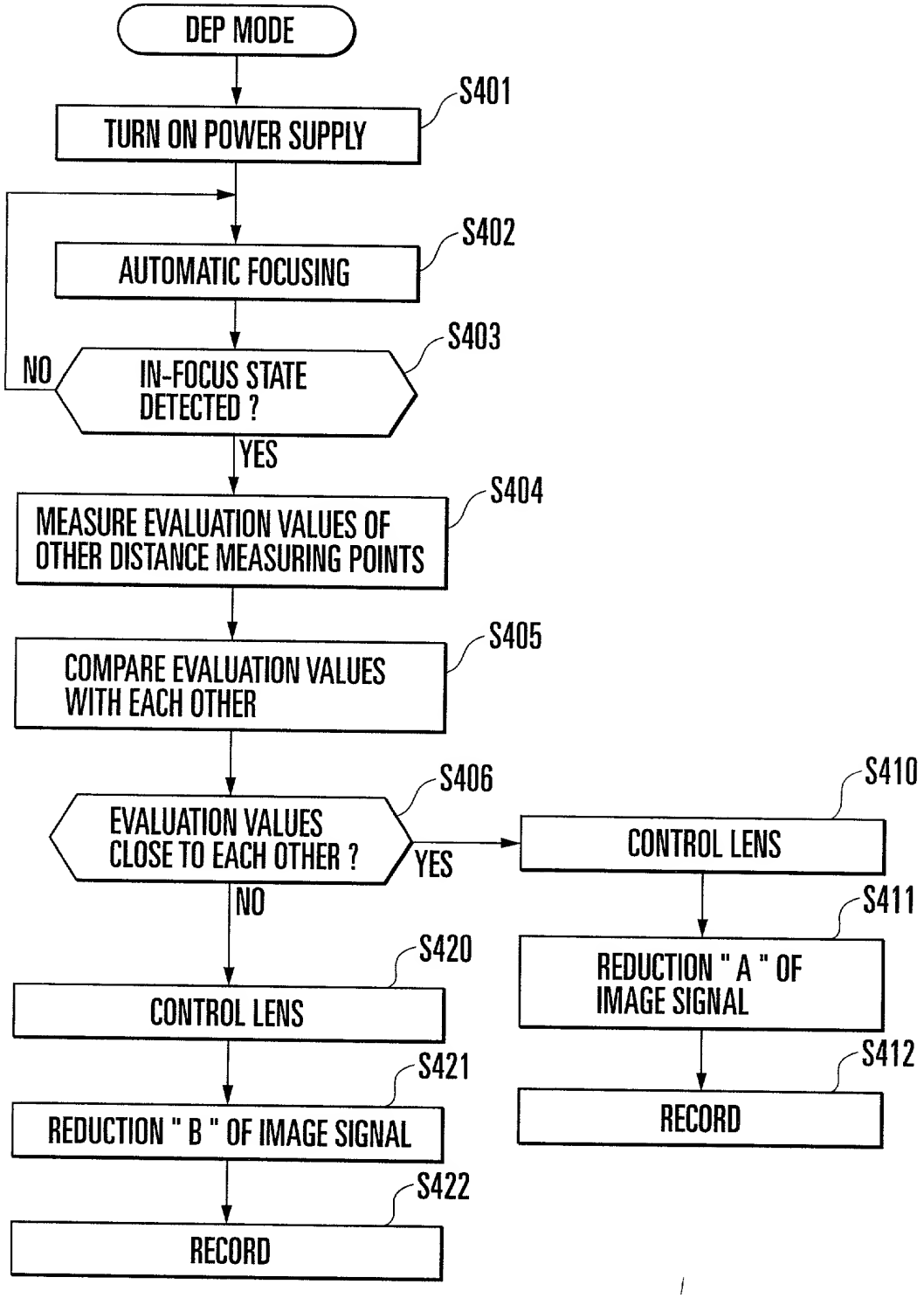


FIG. 10C



■ = EFFECTIVE PIXEL
□ = INEFFECTIVE PIXEL
(a) = IMAGE ON FRAME MEMORY
(b) = IMAGE TO BE RECORDED

FIG. 11


DEP MODE
TURN ON POWER SUPPLY
S401
AUTOMATIC FOCUSING
S402
IN-FOCUS STATE DETECTED ?
S403
NO
YES
MEASURE EVALUATION VALUES OF OTHER DISTANCE MEASURING POINTS
S404
COMPARE EVALUATION VALUES WITH EACH OTHER
S405
EVALUATION VALUES CLOSE TO EACH OTHER ?
S406
YES
NO
CONTROL LENS
S410
REDUCTION " A " OF IMAGE SIGNAL
S411
RECORD
S412
CONTROL LENS
S420
REDUCTION " B " OF IMAGE SIGNAL
S421
RECORD
S422